

201
8.5 HW Key
p 546-548
5, 7-15, 18-22, 25-27, 30, 32, 39

5. \overline{AB} $m = 0$ \overline{BC} $m = \frac{-4}{-3} = \frac{4}{3}$
 \overline{CD} $m = \frac{-1}{-4} = \frac{1}{4}$ \overline{AD} $m = \frac{-5}{-3} = \frac{5}{3}$ Not a trap.

7. $m \angle J = 130$ 8. 80 9. 118
 $m \angle L = 50$ 100 62
 $m \angle M = 130$ 80 62

10. Yes $\angle A + \angle D$ are suppl + $\angle B + \angle C$ are suppl.

11. Yes $\overline{EF} \parallel \overline{HG}$ Cons int \angle s conv

12. Not $\angle J \cong \angle L \cong$ suppl. then
 since both sets opp \angle s \cong then \square

13. 14 14, 23 15. 66.5

18. $\frac{360}{-140}$
 $\frac{220}{110^\circ} \div 2$

19. $2(110) + 60$
 280
 $360 - 280 = 80^\circ$

20. $\frac{150}{+90}$
 $\frac{240}{360}$
 $\frac{-240}{120} \div 2$
 60°

25. $7 = \frac{1}{2}(10 + 2x)$ 26. $12.5 = \frac{1}{2}(3x + 16)$

$14 = 10 + 2x$

$2 = x$

$25 = 3x + 16$

$9 = 3x$

$3 = x$

27. $18.7 = \frac{1}{2}(5x + 12x - 1.7)$

$37.4 = 17x - 1.7$
 $39.1 = 17x$

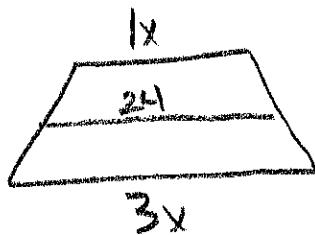
$x = 2.3$

Use Pythagorean Thm

21. $WX = XY = 3\sqrt{2}$
 $YZ = ZW = \sqrt{34}$

22. $WX = WZ = 2\sqrt{13}$
 $XY = YZ = 6\sqrt{5}$

30.



$$24 = \frac{1}{2}(4x)$$

$$12 = x$$

$$12 + 36$$

32.

$$7x - 6 = \frac{1}{2}(x^2 + 36)$$

$$14x - 12 = x^2 + 36$$

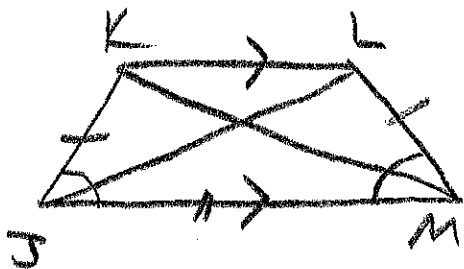
$$0 = x^2 - 14x + 48$$

$$= (x - 6)(x - 8)$$

$$\cancel{x = 6} \quad x = 8$$

$$\text{Mid} = 36$$

39.



G: JKLM is isos trp
 $\overline{KL} \parallel \overline{JM}$ $\overline{JK} \cong \overline{LM}$

P: $\overline{JL} \cong \overline{KM}$

① ~

① Given

② $\angle KSM \cong \angle LSM$ ② Base \angle s \cong on an isos trp③ $\overline{JM} \cong \overline{JM}$

③ Refl.

④ $\triangle KSM \cong \triangle LSM$

④ SAS

⑤ $\overline{KM} \cong \overline{JL}$

⑤ CPCTC

⑥ $\overline{JL} \cong \overline{KM}$

⑥ Symmetric